

Features

- 210 Watts Peak Pulse Power per Line ($t_p=8/20 \mu s$)
- Protects Two High Speed I/O Lines
- Low Clamping Voltage
- RoHS Compliant
- IEC Compatibility
IEC61000-4-2 (ESD) $\pm 25kV$ (air), $\pm 20kV$ (contact)
IEC61000-4-4 (EFT) 40A (5/50ns)
IEC61000-4-5 (LIGHTNING) 6A (8/20 μs)

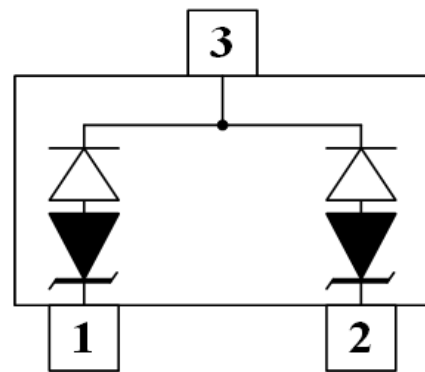
Dimensions SOT-23



Applications

- Cellular Handsets & Accessories
- Keypads, Side Keys, Audio Ports
- Portable Instrumentation'
- Notebooks, Desktops, and Servers
- Digital Lines
- Tablet PC

Pin Configuration



Mechanical Characteristics

- Package:SOT-23
- Molding Compound Flammability Rating : UL 94V-0
- Weight 8 Milligrams (Approximate)
- Reel Size : 7 inch
- Lead Finish : Lead Free
- Quantity Per Reel:10,000pcs
- Device Marking:N15

Absolute Maximum Ratings (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20 μs)	Ppp	210	W
ESD per IEC 61000-4-2 (Air)	V _{ESD}	± 25	KV
ESD per IEC 61000-4-2 (Contact)		± 20	
Operating Temperature Range	T _J	-40 to +125	°C
Storage Temperature Range	T _{STJ}	-55 to +150	°C

Electrical Characteristics (TA=25°C unless otherwise specified)

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
VRWM	Reverse Working Peak Voltage				15	V
VBR	Reverse Breakdown Voltage	IT = 1mA	16.7			V
IR	Reverse Leakage Current	VRWM = 15V			1	μA
VC	Clamping Voltage	IPP = 1 A (8/20μs)			22	V
VC	Clamping Voltage	IPP = 6 A (8/20μs)			35	V
CJ	Capacitance	VR = 0V, f = 1MHz		0.6		pF

Characteristic Curves

Figure 1. 8 x 20 μ s Waveform

Figure 2. Power Derating Curve

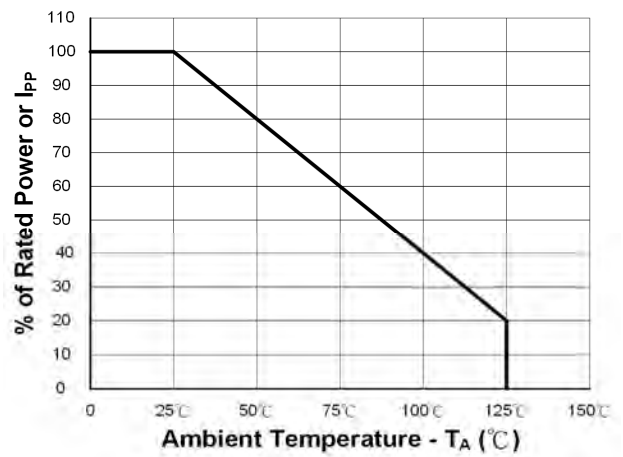
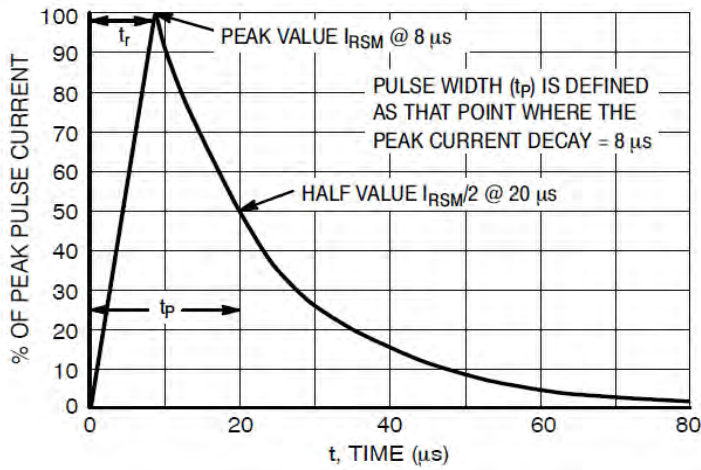
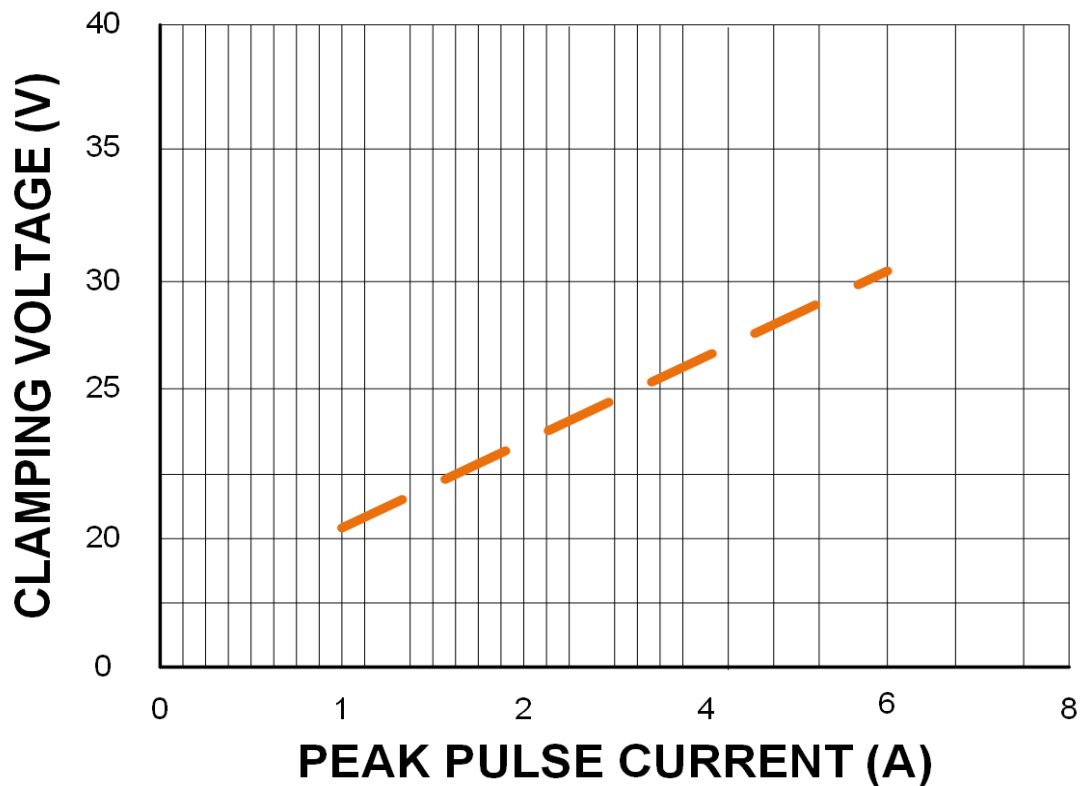


Figure 3. Clamping Voltage vs. Peak Pulse Current ($t_p=8/20 \mu$ s)



Characteristic Curves

Figure 4. Typic Capacitance vs. Reverse Voltage

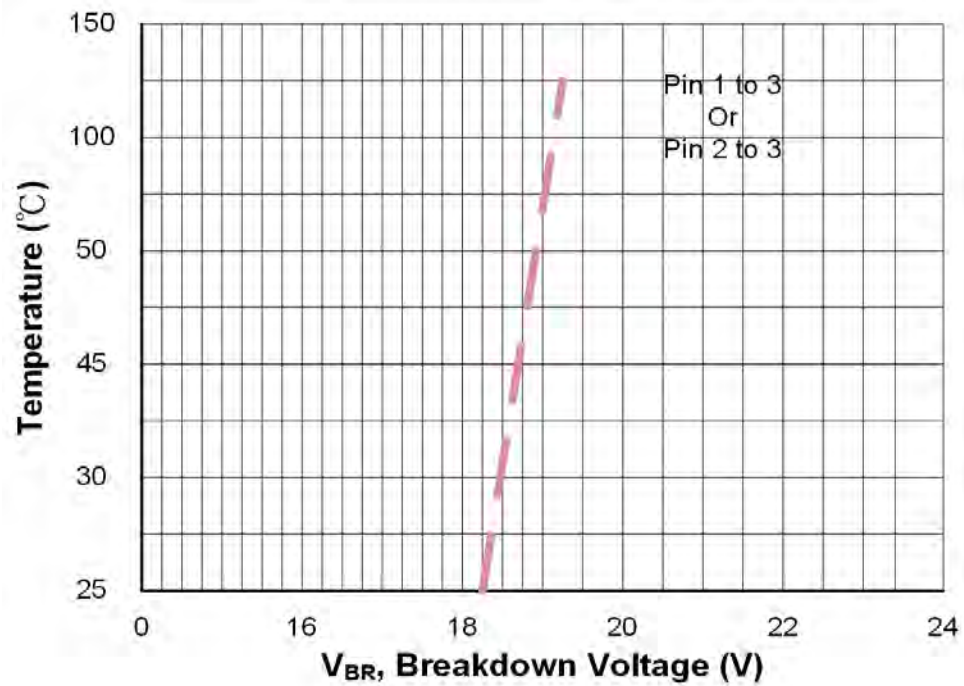
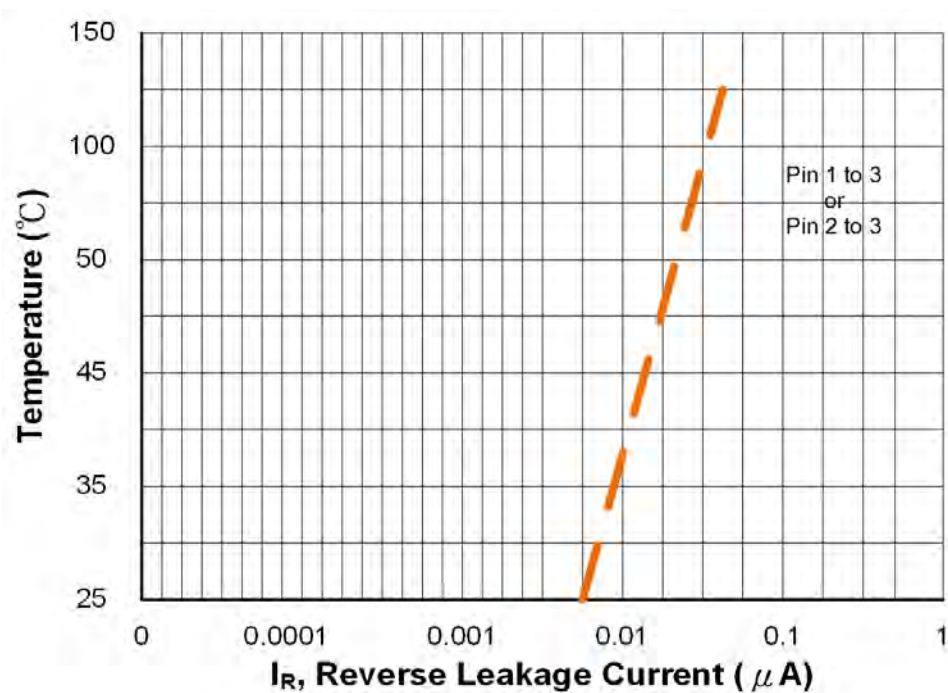
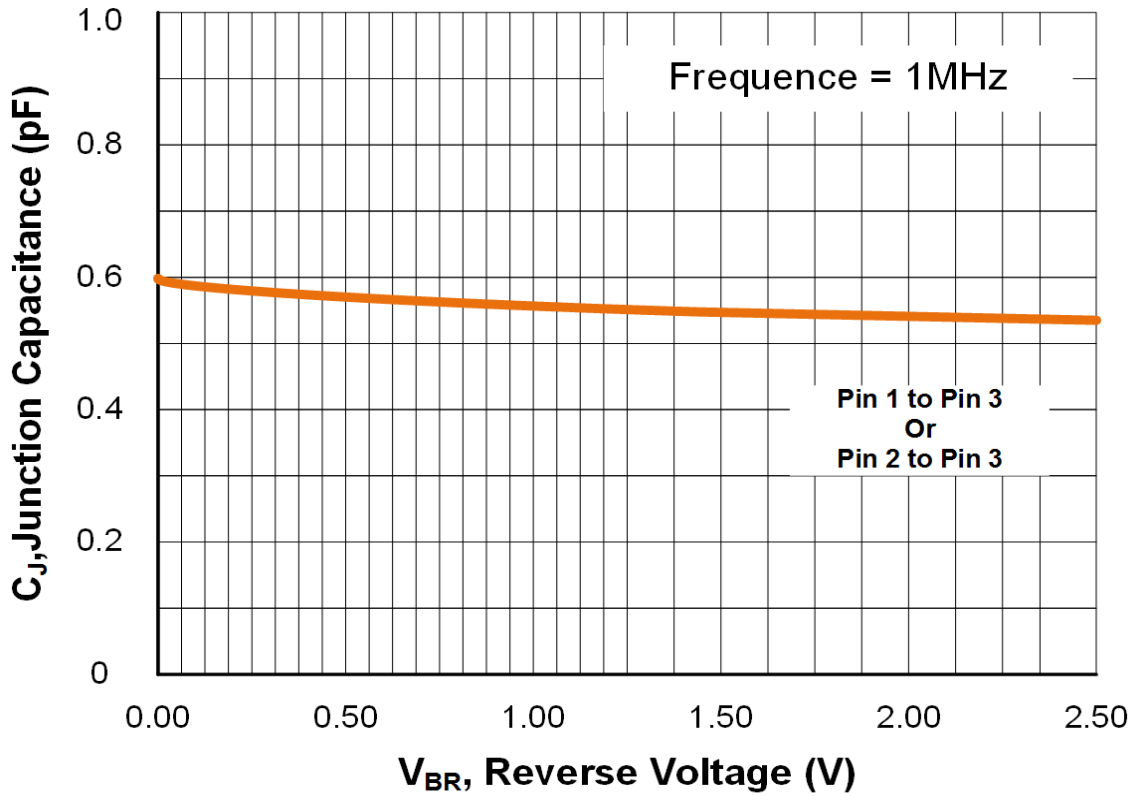


Figure 5. Typic Capacitance vs. Reverse Voltage

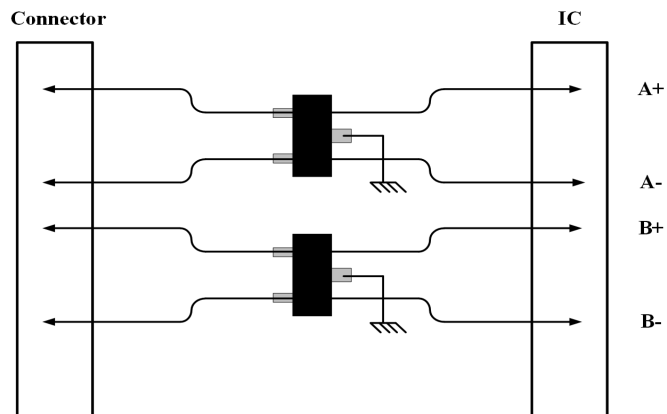


Characteristic Curves

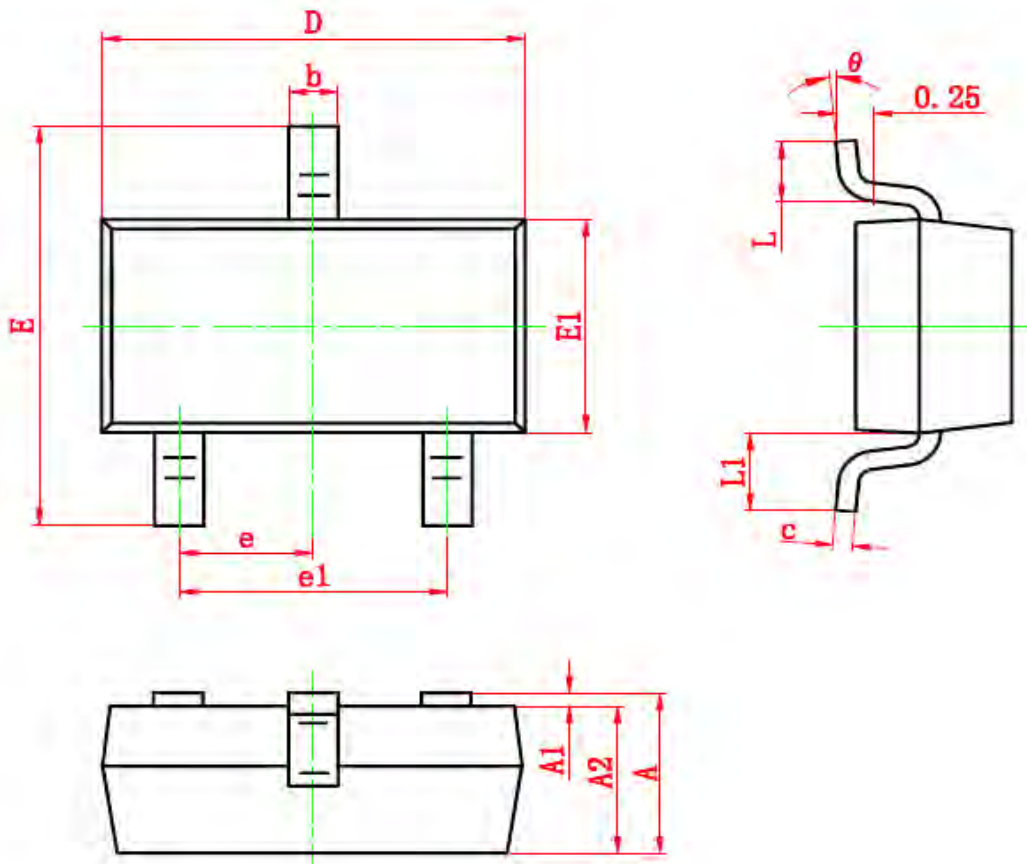
Figure 6. Typical Capacitance vs. Reverse Voltage



Typic Application Schematic



SOT-23 Package Outline Drawing



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	2.250	2.550	0.089	0.100
E1	1.200	1.400	0.047	0.055
e	0.950 TYP.		0.037 TYP.	
e1	1.800	2.000	0.071	0.079
L	0.300	0.500	0.012	0.020
L1	0.550 REF.		0.022 REF.	
θ	0°	8°	0°	8°

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